

What is claimed is:

5 a plurality of circuits, connected to a common
terminal, wherein each of the circuits comprises:

a device connected to the filter,

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10      the device has first and second states;
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15 each circuit has a second filter characteristic
which substantially blocks the first and second
frequency bands when the device is in the second state,
wherein the second filter characteristic is a result of
the device and the filter acting in combination.

2. The frequency multiplexer of claim 1 further comprising:

3. The frequency multiplexer of claim 2 wherein
30 the controller comprises a plurality of individual

11. The frequency multiplexer of claim 1 wherein each filter comprises:

a second inductor connected in parallel with both the first inductor and the filter capacitor.

a first capacitor connected in series with a switch device, wherein the switch device and the first capacitor are connected in parallel with the first inductor.

14. The frequency multiplexer of claim 13 wherein each diode is a PIN diode.

16. A method for switching between frequency bands comprising the steps of:

25 selecting an active circuit from a plurality of
circuits,

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conducting a signal through the active circuit,
wherein the signal is of the first frequency band of the
active circuit.